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pothetical views and more or less disputable reasonings. No one paid any attention to the ideas put forth by Duchesne, and to such a point that a conscientious biographer, who pronounced his eulogy in a public assemblage, omitted them entirely."

## Botanical Literature.

*British Fresh-Water Algae*, exclusive of the Desmideae and Diatomaceae. With colored Plates. By M. C. Cooke, LL.D. London: Williams & Norgate. 1882.

Since the publication, in 1852, of Hassall's History of the British Fresh-Water Algae, a work now classed among rare books, and one seldom obtainable, we believe that no other on this subject has appeared in the English language, if we except Dr. Wood's incomplete monograph, which was published by the Smithsonian Institution in 1872.

All students of these plants, then, both English and American, will welcome the Manual which Dr. Cooke is compiling and publishing under the above title. The first part of the work, which has just reached us, is devoted to the *Palmellaceae*, and consists of twenty-eight octavo pages of descriptions in English, with copious notes and observations, accompanied with eleven excellently colored plates. The second part, which is now in course of preparation, will include the *Protococcaceae* and *Volvocineae*, and this will soon be followed by a third part devoted to the *Zygnemaceae*. The author estimates that it will require about twelve parts to complete the work, and these will be furnished at prices varying with the size. Judging from the comparatively low price of the part before us, the cost of the entire work will prove quite moderate, even at the advertised price; yet Dr. Cooke offers the inducement of a discount of 25 per cent. from the latter to those who subscribe now, each part to be paid for as published.

*Flora of Westchester County* (N. Y.). By Oliver R. Willis, A.M., Ph. D., 8vo., pamph., pp. 56. New York: Roper & Burdge.

During the half century that has elapsed since the publication by the late Dr. S. B. Mead, in the Reports of the Regents of the University for 1831-'32, of a list of plants found growing in the vicinity of North Salem Academy, nothing has been added to our knowledge of the flora of Westchester County, excepting an occasional note in the BULLETIN; and no one had examined the entire region with a view to making a complete report until Dr. Willis was induced to do so by the Rev. Robert Bolton, the author of the History of Westchester County. It was for this work that the Catalogue was especially prepared, and from this that the reprint before us was taken.

According to the author, there have been detected in the County, up to the present time, 1,142 phaenogams and 46 ferns and their allies. Of the phaenogams, 50 are trees reaching a height of 30 feet and beyond; 34 are trees attaining a height 15 to 30 feet; and 69 are shrubs, all of which are growing without cultivation, and very few of which have been introduced. Of the entire number of plants enumerated, 88 are adventive from Europe; and, of these, 57 are found growing without cultivation, and are said to be naturalized, while the remaining 31, although growing without cultivation, can scarcely be regarded as fully established. There is a large number of typographical errors scattered through the pages of this flora, due, as we are informed by the author, to the fact that he was not given a proper opportunity to correct proof. These, however, since the publication of the pamphlet, have been corrected, and a list of the corrections has been printed in the form of an appendix; but we regret to see that even the latter is not free from error, the conceit of the compositor having led him to make a supposed correction of the author's "yellow water-crowfoot" to "yellow-water crowfoot."

*A preliminary Catalogue of the flowering Plants and higher Cryptogams growing without Cultivation within thirty miles of Hanover*, N. H. By Henry G. Jesup, A.M., Professor of Natural History in the Chandler Scientific Department of Dartmouth College, and the N. H. College of Agriculture and the Mechanic Arts. 8vo., pamph., pp. 52. Hanover, N. H.: N. A. McClary. 1882.

From a typographical point of view, this catalogue presents a marked contrast with the one just noticed, the paper being of excellent quality, and the letter-press of nearly faultless execution.

Prof. Jesup's work is intended to include, so far as known, the flora within about thirty miles radius of the town of Hanover, N. H., a circuit extending to, and embracing the mountain peaks, Moosilauke and Kearsarge in New Hampshire, and Killington in Vermont. The limit embraced is divided nearly equally between the two adjoining States. The total number of plants enumerated is 1,008, of which 956 are phaenogams and 52 are cryptogams. Of the latter, 7 are *Equisetaceae*; 36 (excluding varieties, 6) are *Filices*; and 10 (excluding variety, 1) are *Lycopodiaceae*. The number of introduced phaenogams is 144. The number of additional plants that may be expected to occur within the limits embraced in the flora, and a list of which is given in an appendix, is 146.

As the primary object of this catalogue was the benefit of the author's classes in botany, and of the public at large, brief directions have been given for the collection and preservation of plants; and common names have been added so far as known. The latter differ in no case from those found in all our manuals.

To the catalogue of plants is appended a 22-page list of the vertebrate animals found within the same limits.

*The Thirteenth Annual Report of the American Museum of Natural History*, Central Park, New York, Feb., 1882. 8vo., pamph., pp. 28.

Of botanical interest in this Report is the following statement: "An herbarium of North American plants, preserved with remarkable taste and care, has been received from the late Stephen Whitney Phœnix, and forms the beginning of a new Department of special interest to those scientists devoting themselves to the study of botany." As well known to those who have visited this Museum, the Economic Department contains a very large and interesting collection of native and foreign woods. This collection has been so greatly increased during the last year by the labors of a corps of experienced botanists under the direction of Prof. C. S. Sargent, that it has been found necessary to transfer the specimens temporarily to the Arsenal building in Central Park, where they will be displayed to the public during the coming autumn.

**Proceedings of the Torrey Club.**—At the regular meeting of the Club held at Columbia College, Tuesday Evening, April 11th, the President occupied the Chair, and twenty-two members were present.

After the reading of the minutes the President announced the death of Mr. W. H. Leggett, and remarked at some length upon his life, character and attainments. Judge Brown and Mr. Gerard were appointed a Committee to draft resolutions proper to the occasion.

*Plants Exhibited.*—Mr. Chamberlin exhibited a collection of marine algae gathered in New York Harbor, and, with it, a number of different forms of a species of *Grinnellia*. The President showed the floating-bladder of a species of *Macrocystis* from California and gave an account of the plant which bore it. Mr. Schrenk exhibited a specimen, preserved in fluid, of a seedling *Iris*, showing a peculiar mode of germination.

*Preservation of Specimens of Coniferae.*—Mr. Schrenk stated that, after an unsuccessful trial of many expedients for the preservation of specimens of Coniferae for the herbarium, he had found that by soaking the specimen in Wickersheimer's preservative fluid it was rendered flexible, and no longer showed a tendency to shed its leaves after being pressed and mounted.

One corresponding and two active members were elected.

At the regular meeting held Tuesday evening, May 9th, the President occupied the Chair and twenty-three persons were present. Resolutions expressive of the Club's respect for the late Mr. Leggett, and of its sympathy with his relatives in their bereavement, were read and adopted, and a draft of the same was directed to be transmitted to the family.

*The Herbarium.*—The Chairman of the Herbarium Committee announced the receipt of a gift to the Club's herbarium, from Mr. Geo. E. Davenport, of a collection of Alaskan ferns.

*Plants Exhibited.*—Mr. Braman exhibited a small collection of fresh specimens of plants sent from Wisconsin by Mrs. C. T. Tracy, comprising the following species: *Anemone patens*, L., var. *Nuttalliana*, Gray; *Isopyrum biternatum*, T. & G.; *Trillium grandiflorum*, Salisb.; and *Erythronium albidum*, Nutt. Mr. Schrenk showed a seedling *Iris* growing in a flower-pot, and exhibiting the same peculiarities in its mode of germination as the preserved specimen exhibited by him at the last meeting. The President exhibited the leaves of a number of species of *Platanus* and remarked upon the manner in which, in the West, the seeds of *P. occidentalis* are disseminated in the spring.